PDR RID Report

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Category Name System-level   **Actionee** Project (Rama/Steve Kempler)

Sub Category

Subject Need Procedures for Data QA

Description of Problem or Suggestion:

No procedures exist defining exactly how the data providers and DAACs will perform QA on data, i.e., exactly who does QA, how does that fit into the ECS design?

Originator's Recommendation

Write some basic operations procedures for QA.

GSFC Response by: Ramapriyan   **GSFC Response Date** 7/20/95

Several efforts are underway to define Quality Assurance (QA) of EOS Products.

1) The ESDIS Science Office :

Several drafts of a QA Procedural Plan for the generation of EOS products have been written and circulated among the Instrument Science Teams (ITs) and the DAACs for comment. Within the last draft, an implementation scheme and schedules were developed that involved the participation of the ITs, the DAACs, the IDS teams and the general user science community. The involvement of all these groups was to ensure that the final QA methodology
will satisfy both the science requirements of the producers of the data products, as well as the consumers of the products.

The ITs and the DAACs will generate three iterations of QA Plans for their products, with each iteration providing greater detail of their QA methodology and QA parameters; the IDS teams will be given questionnaires soliciting them for their general QA needs from the producers of the standard products; and a panel will be formed from the science user
community to advise in the general area of the organization and the content of the archived QA statistics.

The ESDIS Science Office will coordinate the exchange of information among the groups within a workshop to be held in the last half of 1996. Final QA Plans will be due from the ITs by July of 1997.

2) The Ad Hoc Working Group on Production (AHWGP) :

QA flags or the generated products themselves will be "pulled" from the SCFs to the DAACs via an ECS function : the subscription service; (an event that triggers a specific response - in this case a data transfer from DAAC to the requester at the SCF) for QA analysis at the SCF. The gathering of the information related to these network transfer rates (ie : between the SCFs and the DAACs) will be principally coordinated by the AHWGP, though this information is also requested within the QA Plans generated by the ITs and the DAACS.

3) The Data Modeling Working Group :

The Data Modeling Working Group (DMWG) is preparing a strawman design of a QA metadata model for presentation at CDR. Quality control information will be inserted into the core metadata at two levels; at the collection level (e.g. dataset, many granules) and at the granule level. Most quality control information pertaining to validation efforts will be contained at the collection level, while parameters pertaining to quality assurance will be contained within the granule. At the granule level, QA attributes have been defined, which
would be searchable keywords within the core metadata.

4) The EOS Data Quality Panel

The EOS Data Quality Panel (chaired by Mike Freilich) is a working group within the auspices of the Project. Its' principal objective is to coordinate the various aspects of quality control within EOS.   Within the past six months, this Panel has defined quality control as consisting of three entities : calibration, quality assurance and validation. The panel has also proposed "working" definitions of the functions of each of these components of quality control. A future topic that this Panel will focus on is : how do these entities work in harmony to ensure total quality control of EOS products ?

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HAIS Response by:	**HAIS Schedule**	5/22/95
HAIS R. E.	**HAIS Response Date**	

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****** **Attachment if any** ******